

550.34

SECTION V.—SEISMOLOGY.

SEISMOLOGICAL ABBREVIATIONS USED IN THE INSTRUMENTAL REPORTS.

CHARACTER OF THE EARTHQUAKE.

I = noticeable.

II = conspicuous.

III = strong.

d = (*terre motus domesticus*) = local earthquake (sensible or felt).v = (*terre motus vicinus*) = near-by earthquake (within 1,000 km.)r = (*terre motus remotus*) = distant earthquake (1,000 to 5,000 km. distant).u = (*terre motus ultimus*) = very distant earthquake (beyond 5,000 km.). Δ = distance to epicenter.

PHASES.

P = (*undæ primæ*) = first preliminary tremors.PR_n = P waves reflected *n* times at the earth's surface.S = (*undæ secundæ*) = second preliminary tremors.SR_n = S waves reflected *n* times at the earth's surface.

PS = transformed waves; longitudinal (P) to transversal (S) or vice versa.

L = (*undæ longæ*) = long waves in the principal portion.M = (*undæ maxima*) = greatest motion in the principal portion.

C = (coda) = trailers.

O = time at epicenter.

L_{rep1} = Long waves reaching the station from the antiepicenter (40,000 km. $-\Delta$).L_{rep2} = long waves again reaching the station from the antiepicenter (40,000 km $+\Delta$).

F = (finis) = end of perceptible trace.

NATURE OF THE MOTION.

i = (impetus) = abrupt beginning.

e = (emersio) = gradual appearance.

T = period = twice the time of oscillation.

A = amplitude of the earth's movement, reckoned from the zero line.

E, N, or Z attached to a symbol signifies the E-W, the N-S, or the vertical component, respectively, thus:

A_E is the E-W component of A. } Measured in microns
A_N is the N-S component of A. } (μ), $\frac{1}{1000}$ mm.
A_Z is the vertical component of A } Measured in microns

INSTRUMENTAL CONSTANTS.

T = period of instrument.

V = magnification of instrument.

ε = damping ratio.

SEISMOLOGICAL REPORTS FOR JANUARY, 1917.

W. J. HUMPHREYS, Professor in Charge.

[Dated: Weather Bureau, Washington, D. C., Mar. 2, 1917.]

TABLE 1.—Noninstrumental earthquake reports, January, 1917.

Day.	Approximate time, Greenwich Civil.	Station.	Approximate latitude.	Approximate longitude.	Intensity Rossi-Forel.	Number of shocks.	Duration.	Sounds.	Remarks.	Observer.
1917. Jan. 12	H. m. 22 42	CALIFORNIA.	• •	• •			M. s.			
	22 42	Fairmont.....	34 45	118 25	3	1				
	22 42	Mojave.....	35 03	118 12	3	1				
	22 42	Neenach.....	34 47	118 37	3	1				
19	13 20	Mt. Wilson.....	34 13	118 16	2	1	None.....	Recorded on float raingage.....		Wendell P. Hoge.
		NEW YORK.								
26	19 37	Alexandria Bay.....	44 22	75 54	2	2				Douglas F. Manning.
	19 37	Canton.....	44 36	75 10	4	2	7			U. S. Weather Bureau.
	19 37	Gabriels.....	44 25	74 10	3	2	5	Rumbling.....		R. Shea.
	19 37	Harkness.....	44 31	73 34	4-5	1	Rumbling.....	Shook buildings slightly.....		J. W. Harkness.
	19 37	Ogdensburg.....	44 42	75 30	4	1	2	Shook buildings.....		D. C. Farley.
	19 37	Plattsburg.....	44 43	73 27	4	1	None.....	Rattled dishes.....		Press report.